

UNITED STATES DEPARTMENT F COMMERCE Patent and Trademark Office

Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

SERIAL NUMBER **FILING DATE** FIRST NAMED INVENTOR ATTORNEY DOCKET NO. サフタマックル しゅい ログター じゃいわり **EXAMINER** 1882/1105 **ART UNIT** PAPER NUMBER C. GIERRAY BURNERS AFRONDA DA MADAR DE DELARGE E P.O. 20% 4400 HELDION, 17 77770-4433 15117 DATE MAILED: 1914 - 199 This is a communication from the examiner in charge of your application. COMMISSIONER OF PATENTS AND TRADEMARKS 12 06 93 This application has been examined Failure to respond within the period for response will cause the application to become abandoned. 35 U.S.C. 133 Part I THE FOLLOWING ATTACHMENT(S) ARE PART OF THIS ACTION: 1. Notice of References Cited by Examiner, PTO-892. 2. Notice of Draftsman's Patent Drawing Review, PTO-948. 3. Notice of Art Cited by Applicant, PTO-1449. 4. Notice of Informal Patent Application, PTO-152. Part II SUMMARY OF ACTION 1. \boxtimes Claims 17-29, 34-36, and <math>41-70are pending in the application. Of the above, claims 17-29, 34-36, and 65-70 are withdrawn from consideration. 2. \ Claims 1-16, 30-33, 37-40, and 71 3. Claims 4. X Claims 53 - 64 are rejected. 5. Claims are objected to. 6. Claims 17-29, 34-36, and 4-70 are subject to restriction or election requirement. 7. This application has been filed with informal drawings under 37 C.F.R. 1.85 which are acceptable for examination purposes. 8. Formal drawings are required in response to this Office action. 9. The corrected or substitute drawings have been received on _ . Under 37 C.F.R. 1.84 these drawings are acceptable; not acceptable (see explanation or Notice of Draftsman's Patent Drawing Review, PTO-948). 10. The proposed additional or substitute sheet(s) of drawings, filed on ___ ___. has (have) been approved by the examiner; disapproved by the examiner (see explanation). 11. The proposed drawing correction, filed _ ____, has been approved; disapproved (see explanation). 12. Acknowledgement is made of the claim for priority under 35 U.S.C. 119. The certified copy has been received not been received ☐ been filed in parent application, serial no. _____ _____; filed on _ 13. Since this application apppears to be in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213. 14. Other

EXAMINER'S ACTION

Serial Number 08/252,384 Art Unit 1814

The text of those sections of Title 35, U. S. Code not included in this action can be found in a prior Office Action.

The continuity data has been amended as requested in THE REQUEST FORM FOR FILE WRAPPER CONTINUING APPLICATION UNDER 37 C.F.R. § 1.62.

The preliminary amendment filed 13 August 1992 which canceled claims 1-16, 30-33, 37-40 and 71 was previously noted and considered. It also remains noted that applicant had indicated an election to prosecute claims 53-64, 67, and 68 in the parent application with serial number 07/928,540, however, the claims pending for prosecution are different as indicated in the previous requirement for restriction in the Office Action mailed 6 December 1993 (Paper No. 17).

The requirement for restriction set forth in the 07/928,540 parent application is carried over to this application which has serial number 08/252,348. The complete text of the requirement for restriction is found in the Office Action mailed 6 December 1993 (Paper No. 17) wherein claims 17-29, 34-36, 41-52, and 65-70 were and now remain withdrawn from further consideration as drawn to nonelected inventions; and, claims 53-64 were elected without traverse. Claims 53-64 remain pending for prosecution.

The following grounds of objection and rejection remain applicable to pending claims 53-64.

The application remains objected to because of alterations which have not been dated as is required by 37 CFR 1.52(c) and 1.56. A properly executed affidavit or declaration signed by all of the inventors identifying the alterations and stating when the unsigned and/or undated alterations were made is required. If the alterations were made before the signing of the oath or declaration, a new oath or declaration in compliance with 37 CFR 1.67(a) identifying this application by its Serial Number, filing date and the title is also required. If the alterations were made after the signing of the oath or declarations, a full explanation and cancellation of such alterations is required. Attention is directed to page 8, line 19, page 10, line 24, page 17, lines 30 and 32, page 19, line 23, page 23, line 23, page 24, lines 10 and 24, page 29, lines 13 and 14, page 35, lines 13 and 26, page 39, lines 6 and 8, page 40, line 12, page 41, lines 33 and 34, page 44 (Table 6), which contain initialed but undated corrections to the specification. See also the claims.

The use of what are apparently trademarks has been noted in this application should be capitalized wherever it appears and be accompanied by the generic terminology. The use of trademarks is permissible in patent applications, however, the proprietary nature of the marks should be respected and every effort made to prevent their use in any manner which might adversely affect their validity as trademarks. Attention is directed to at least the following: "diazinon", "paraoxon", "parathion", and "durban". The specification should be reviewed for use of other tradenames/trademarks besides those mentioned.

Correction of the foregoing is required.

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

The specification remains objected to under 35 U.S.C. 112, first paragraph, as failing to provide a reasonable written description for practicing the claimed invention insofar as the present claims indicate using a "recombinant" organophosphorous acid anhydrase. It is pointed out that the specification recites using P. diminuta and a Flavobacterium sp (ATCC 27551) (see the cited references to Harper et al., BX, and McDaniel et al., BY) which set forth DNA sequences coding for opd where the organophosphorous acid anhydrase DNA set forth in Figure 1 of the specification are only partially identical. From the recited examples in the specification, it is not readily apparent that the species of bacteria are any different, that the plasmids used are any different, that the isolated DNA that was sequenced was any different, that the functionality encoded by the DNA is any different, and yet the sequences recited in the Harper et al., McDaniel et al., Mulbry et al. (1) and Figure 1 of the specification set forth different DNA sequences coding for what is apparently the same enzyme. Note that page 21 of the specification recites using the plasmid pCMS1 (fig. 2 of Harper et al.) and sets forth the DNA sequence (fig. 1). This is apparently the same plasmid and DNA as in the specification (compare the paragraph bridging pages 23 and 24 of the specification and the McDaniel et al. reference, see RESULTS). Note also that fig. 4 of the McDaniel reference is identical to fig. 2 of the present application. Thus, there are apparently

at least three different references all directed to the apparently identical genetic material where no one reference indicates a sequence identity for the apparently identical genetic material and therefore, a query is raised as to what genetic material is disclosed as coding for the organophosphorous acid anhydrase used in the process of detoxification as each is apparently different and given that there are three disparate sequences, it is not clear that one of ordinary skill in the art using solely the disclosure in the application would have obtained the appropriate organophosphorous acid anhydrase which is defined by the amino acid sequence of Figure 1.

Note in particular the indication in the response filed 28 October 1991 at page 15-16 indicating a 2% difference in sequence and the request to alter the sequence of Figure 1 (page 18). It is not clear what changes have been made in substitute Figure 1, as it is not apparently of record. It is noted that the above response cites Ex parte Marsili et al. among others (footnote, page 18-19 of the response), however, in Marsili, the specification was adequately enabling to support the change in formula of a chemical compound (note that a DNA polymer is not the same compound as an imidazole) whereas here, the process uses a recombinant enzyme defined by the DNA encoding the enzyme organophosphorous acid anhydrase where the specific amino acid sequence is a critical feature to the function of the enzyme. Here the specification and the response alone do not show what changes applicant intends to make and whether or not those changes would have been adequately supported by the specification as originally filed, nor has any change been shown to have been an inherent characteristic of the disclosed and presently claimed process. Thus, Ex parte Marsili et al. among others is not definitive for showing the precedence of altering the DNA sequence of Figure 1 as originally filed in the instant application. The comments regarding Exhibit A in the response have been considered (page 15+ of the above response) and is clearly indicative that the sequence as indicated in the application and those which have been published are disparate. Thus, the query of which sequence is correct still remains and given those disparities, it is apparent that the written description is fatally flawed as the sequence comparison (Exhibit A) shows by indication of several hyphens, "-", defined as a "... base is missing ...", and, that the sequence as originally filed is incomplete as is evident from the comparative evidence of Exhibit A. Note the numerous hyphens in the sequence indicated to be that which conforms to application figure 1. In the previous Office Action in the parent application, the specification was objected to because of the apparent disparity between the published sequences and the sequence set forth in the present application. In view of the disparities (Exhibit A filed with the

response) and the request to correct the sequence shown in Figure 1, it is clearly apparent that the present application lacks an adequate written description for practicing the claimed invention with regard to the correct DNA sequence. Previously, Figure 1 of the present application was in one alternative the correct sequence, however, from Exhibit A, it is now clear that the sequence shown in Figure 1 in the present application is incorrect. Thus, the objection is not removed by the explanation and exhibit in applicants' response of 28 October 1991 and in view of the claims reciting a "recombinant organophosphorous acid anhydrase" used in the process where that organophosphorous acid anhydrase is defined by the sequence in Figure 1 and in view of the stated intention to correct Figure 1, the specification remains objected to.

The disparities (Exhibit A filed with the 28 October 1991 response) and the request to correct the sequence shown in Figure 1 clearly show a lack of a reasonable written description for practicing the claimed invention with regard to the correct DNA sequence nor does the exhibit indicate whether or not such changes in the DNA affect the amino acid sequence in shown in Figure 1 of the present application which is in one alternative the correct sequence, however, from Exhibit A, it is clear that the sequence shown in Figure 1 in the present application is incorrect. Thus, the objection to the specification is not removed by the explanation and exhibit in the response of 28 October 1991. In view of the present claims to a process using the recombinant enzyme and the intention to correct Figure 1, the objection is not seen as removable by minor correction or explanation of which amino acid sequence for organophosphorous acid anhydrase as coded for by the DNA sequence (the prior art or that of Figure 1 in the present application) is the correct sequence.

Insofar as the present specification discloses an enzymatic reaction resulting in degradation of the organophosphorous compounds by conversion into different product compounds, the present specification fails to disclose the process as occurring simply by exposing the enzyme to the compound. Note that simply "exposing" does not necessarily result in a detoxified compound as an organophosphorous compound which is not a substrate for the enzyme is not detoxified nor does "exposing" the compound to inactive enzyme result in a detoxified compound absent conditions effecting enzymatic conversion of substrate (the organophosphorous compound) into different product compounds or that the enzyme is effective for detoxifying all organophosphorous compounds such as phosmet or phosphocreatine (see *The Merck Index*) both of which are organophosphorous compounds (i.e.,

organic compounds containing at least one phosphorous atom, see *Hawley's Condensed Chemical Dictionary*) as is DNA. Note that the present specification does not teach or disclose how to detoxify DNA or any other of a wide range of organophosphorous compounds.

Claims 53-64 remain rejected under 35 U.S.C. 112, first paragraph, for the reasons set forth in the objection to the specification.

Claims 53-64 reamin rejected under 35 U.S.C. 112, first paragraph, as the disclosure is enabling only for claims limited to the specifically disclosed compounds such as parathion, paraoxon, and methyl parathion and the specifically disclosed enzyme as defined by the amino acid sequence shown in specification figure 1 (note the above objection to the specification) because the present specification discloses an enzymatic reaction resulting in degradation of the organophosphorous compounds by conversion into different product compounds, the present specification fails to disclose the process as occurring simply by exposing the enzyme to the compound. Note that simply "exposing" does not necessarily result in a detoxified compound as an organophosphorous compound which is not a substrate for the enzyme is not detoxified nor does "exposing" the compound to inactive enzyme result in a detoxified compound absent conditions effecting enzymatic conversion of substrate (the organophosphorous compound) into different compounds or that the enzyme is effective for detoxifying all organophosphorous compounds such as phosmet or phosphocreatine (see *The Merck Index*) both of which are organophosphorous compounds (i.e., organic compounds containing at least one phosphorous atom, see *Hawley's Condensed Chemical Dictionary*) as is DNA. Note that the present specification does not teach or disclose how to detoxify DNA or any other of a wide range of organophosphorous compounds. See MPEP 706.03(n) and 706.03(z).

Claims 53-64 remain rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 53 is incomplete as there is no stated result of the effect of exposing the compound with the organophosphorous acid anhydrase. Note that simply "exposing" does not necessarily result in a detoxified compound as an organophosphorous compound which is not a substrate for the enzyme is not detoxified nor does "exposing" the compound to inactive enzyme result in a detoxified compound. Insofar as the claims recite "organophosphorous compound" as noted in *Hawley's Condensed Chemical Dictionary*, the term refers to any compound containing carbon and phosphorous and is unclear

as to whether or not the terminology is meant to be so inclusive as to include all organophosphorous compounds or whether it is meant to include only such compounds as parathion, paraoxon, and methyl parathion disclosed in the instant specification.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent; or,

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103 which forms the basis for all obviousness rejections set forth in this Office action:

"A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Subject matter developed by another person, which qualifies as prior art only under subsection (f) and (g) of section 102 of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103, the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103.

Claims 53, 54, 58, 59-63 remain rejected under 35 U.S.C. 102 (a) as anticipated by or, in the alternative, under 35 U.S.C. 103 as obvious over McDaniel *et al.* (BY) which discloses that organophosphorous acid anhydrase detoxifies organophosphorous compounds (see reference page 2306 and 2307) by conversion to products wherein the disclosed enzyme was obtained from a transformed microorganism. Here, the reference discloses cloning and expression of an *opd* gene encoding a phosphotriesterase using the same strains, vectors, restriction enzymes, and DNA fragment. Note the unexplained disparity of the sequences where given the fact that DNA is apparently the same DNA that was sequenced in the McDaniel *et al.* reference, the DNA is the same. In the alternative, given the starting materials and teachings in the McDaniel *et al.* reference, it would have been obvious that the ordinary skilled artisan would have obtained from using the disclosed probes, DNA coding for the enzyme that was the same as that of the claims and used same in the disclosed process of degrading organophosphorous compounds.

Claims 3, 54, 58, 59-63 remain rejected under 35 U.S.C. 102 (a) as anticipated by or, in the alternative, under 35 U.S.C. 103 as obvious over Harper et al. (BX) which discloses (page 2586) the recombinant enzyme as degrading organophosphorous compounds wherein the enzyme was obtained from cloning and expression of an opd gene encoding a phosphotriesterase where the DNA sequence is the same for P. diminuta and a Flavobacterium sp (ATCC 27551). Note that the same strains, vectors, restriction enzymes, and DNA fragment are used in the present application and that there is an unexplained disparity of the sequences where given the fact that DNA is apparently the same DNA that was sequenced in the Harper et al. reference, the DNA is the same. In the alternative, given the starting materials and teachings in the Harper et al. reference, it would have been obvious that the ordinary skilled artisan would have, using the recited teachings, obtained the enzyme and used same in the process of degrading organophosphorous compounds.

Claims 53, 58, and 60 remain rejected under 35 U.S.C. 102 (b) as anticipated by Wild et al. (AT) who disclose exposing the organophosphorous acid anhydrase to organophosphorous compounds (see at least pages 629-630) as well as cloning and expression of DNA coding for organophosphate degrading enzymes from *P. diminuta* and a *Flavobacterium* which enzymes were used in the same disclosed process of degrading organophosphorous compounds.

Serial Number 08/252,384 Art Unit 1814

Claims 61-63 remain rejected under 35 U.S.C. 102 (b) as anticipated by or, in the alternative, under 35 U.S.C. 103 as obvious over Wild et al. (AT) who disclose exposing the organophosphorous acid anhydrase to organophosphorous compounds (see at least pages 629-630) as well as cloning and expression of DNA coding for organophosphate degrading enzymes from P. diminuta and a Flavobacterium. In the alternative where the sequence is not disclosed, routine sequencing would have resulted in determination of the sequence of the cloned DNA which would have produced the deduced amino acid sequence. Where the purified enzyme was sequenced, absent factual evidence to the contrary, it would have been obvious that the enzyme disclosed in the reference has the same sequence as the enzyme in claims 61-63 and been used in the disclosed process of degrading organophosphorous compounds.

Claims 53, 54, and 60 remain rejected under 35 U.S.C. 102 (b) as anticipated by McDaniel (AZ) which discloses (see at least pages 45, 62, 101+) degradation (detoxification) of organophosphorous compounds using an enzyme obtained by cloning and expression of an *opd* gene encoding a phosphotriesterase using the same strains, vectors, restriction enzymes, and DNA fragment (see at least page iii, the tables, pages 46, 55-56, 69, figs. 17 and 19, 82, 89-91, and 116-120 and would have been the enzyme used in the disclosed process of degrading organophosphorous compounds.

Claims 61-63 remain rejected under 35 U.S.C. 102 (b) as anticipated by or, in the alternative 35 U.S.C. 103 as obvious over McDaniel (AZ) who discloses (see at least pages 45, 62, 101+) degradation/detoxifying organophosphorous compounds using an enzyme obtained by cloning and expression of an *opd* gene encoding a phosphotriesterase using the same strains, vectors, restriction enzymes, and DNA fragment (see at least page iii, the tables, pages 46, 55-56, 69, figs. 17 and 19, 82, 89-91, and 116-120. It is pointed out that while the sequence is not disclosed, in the alternative and absent evidence to the contrary, routine sequencing would have resulted in determination of the sequence of the cloned DNA which would have led to the deduced amino acid sequence or where the purified enzyme was sequenced, absent factual evidence to the contrary, the enzyme disclosed in the reference has the same sequence as the enzyme in claims 61-63 and would have been the enzyme used in the disclosed process of degrading organophosphorous compounds.

Claims 53-54 and 59-64 remain rejected under 35 U.S.C. 103 as being unpatentable over Munnecke (AW) taken with Munnecke (CD), McDaniel *et al.* (BY) and Gottlieb (US '959).

Munnecke (AW) discloses processes using microbial enzymes in organophosphorous pesticide cleanup (see at least page 259) of containers, soil (page 260), and waste water (page 261) but where Munnecke (AW) do not set forth the organophosphorous compound in air, one of ordinary skill in the art would have from the citation of Munnecke (CD) by Munnecke (AW) have found it obvious to combine the disclosures of Munnecke (AW) with that of Munnecke (CD) which discloses detoxification of spray tank rinse water (page 507) wherein it would have been obvious to one of ordinary skill in the art to detoxify waste organophosphorous compounds in the aerosol spray (i.e. the compound is in the air). Moreover, where Munnecke (AW) disclose (page 258) that the enzyme was needed, it would have been obvious to one of ordinary skill in the art to combine the disclosures of Munnecke (AW) and Munnecke (CD) with that of McDaniel et al. (BY) which discloses organophosphorous acid anhydrase detoxification of organophosphorous compounds (see reference page 2306 and 2307) by conversion to products wherein the disclosed enzyme was obtained from a transformed microorganism. Here, where the reference discloses cloning and expression of an opd gene encoding a phosphotriesterase using the same strains, vectors, restriction enzymes, and DNA fragment. Given the starting materials and teachings in the McDaniel et al. reference, it would have been obvious that the ordinary skilled artisan would have obtained from using the disclosed probes DNA coding for the enzyme that was the same as that of the claims and which provides a source of the enzyme for use in the process disclosed by both Munnecke references and Gottlieb who discloses that such enzymes can be used to detoxify gaseous phase organophosphorous compounds (see at least col 3). Moreover, it would have been obvious by logical deduction from Gottlieb by one of ordinary skill in the art that organophosphorous degradation by the enzyme would have prevented contamination by pretreatment of an area with the enzyme which degrades the compound and that one known protective material is a gas mask. Thus, the claimed invention was within the ordinary skill in the art to make and use at the time it was made and was a whole, clearly prima facie obvious.

Claims 53-54 and 59-64 remain rejected under 35 U.S.C. 103 as being unpatentable over Munnecke (AW) taken with Munnecke (CD), and Wild *et al.* (AT) and Gottlieb (US '959).

Munnecke (AW) discloses processes using microbial enzymes in organophosphorous pesticide cleanup (see at least page 259) of containers, soil (page 260), and waste water (page 261) but where Munnecke (AW) do not set forth the organophosphorous compound in

air, one of ordinary skill in the art would have from the citation of Munnecke (CD) by Munnecke (AW) have found it obvious to combine the disclosures of Munnecke (AW) with that of Munnecke (CD) which discloses detoxification of spray tank rinse water (page 507) wherein it would have been obvious to one of ordinary skill in the art to detoxify waste organophosphorous compounds in the aerosol spray (i.e. the compound is in the air). Moreover, where Munnecke (AW) disclose (page 258) that the enzyme was needed, it would have been obvious to one of ordinary skill in the art to combine the disclosures of Munnecke (AW) and Munnecke (CD) with that of Wild et al. (AT) who disclose exposing the organophosphorous acid anhydrase to organophosphorous compounds (see at least pages 629-630) as well as cloning and expression of DNA coding for organophosphate degrading enzymes from P. diminuta and a Flavobacterium which enzymes would have been used in the disclosed process of degrading organophosphorous compounds set forth in both Munnecke references. Given the starting materials and teachings in the Wild et al. reference, it would have been obvious that the ordinary skilled artisan would have obtained enzyme that was the same as that of the claims and which provides a source of the enzyme for use in the process set forth by both Munnecke references and Gottlieb who discloses that such enzymes can be used to detoxify gaseous phase organophosphorous compounds (see at least col 3). Moreover, it would have been obvious by logical deduction from the Gottlieb patent by one of ordinary skill in the art that organophosphorous degradation by the enzyme would have prevented contamination by pretreatment of an area with the enzyme which degrades the compound and that one such piece of protective equipment was a gas mask. Thus, the claimed invention was within the ordinary skill in the art to make and use at the time it was made and was a whole, clearly prima facie obvious.

Claims 55-57 remain rejected under 35 U.S.C. 103 as being unpatentable over Munnecke (AW) taken with Munnecke (CD), McDaniel *et al.* (BY) and Gottlieb (US '959); or, under 35 U.S.C. 103 as being unpatentable over Munnecke (AW) taken with Munnecke (CD), and Wild *et al.* (AT) and Gottlieb (US '959) as applied to claims 53-54 and 59-64 above, and further in view of Grot *et al.* (US '650).

As both Munnecke references disclose detoxification of organophosphorous compounds using an enzyme and either of McDaniel et al. or Wild et al. disclose a process for obtaining that enzyme in large quantities for the process disclosed in the both Munnecke references and in McDaniel et al. and Wild et al. which both disclose methods of and produced the enzyme

and showed that the recombinant enzyme functioned to effect organophosphorous degradation, and where Gottlieb discloses using enzymes to detoxify gaseous phase organophosphorous compounds (see at least col 3); it would have been obvious by logical deduction from the Gottlieb patent by one of ordinary skill in the art that organophosphorous degradation by the enzyme would have prevented contamination by pretreatment of an area with the enzyme which degrades the compound and that one such piece of protective equipment was a gas mask wherein Grot et al. discloses masks that have been pretreated so as to provide protection from and detoxify at least in part organophosphorous compounds (see at least col 12 of Grot et al.). It would have been obvious to one of ordinary skill in the art to impregnate masks (disclosed in Grot et al.) for the purpose of detoxification of airborne organophosphorous compounds using the embedded enzymes disclosed in Gottlieb wherein said enzymes are those obtained by the process disclosed in either of McDaniel et al. or Wild et al. to effect a process such as disclosed in both of Munnecke references as modified by Grot et al. and Gottlieb et al. which disclose pretreating and embedding the materials to detoxify organophosphorous compounds wherein the method defined by the combined references would have been practices on a mask is a matrix which is a filtration device and is a gas mask. Thus, the claimed invention was within the ordinary skill in the art to make and use at the time it was made and was a whole, clearly prima facie obvious.

No claim is allowed.

This is a file-wrapper-continuing application of applicant's earlier application S.N. 07/928,540. All claims are drawn to the same invention claimed in the earlier application and could have been finally rejected on the grounds or art of record in the next Office Action of the parent '540 application. It is noted that applicant has presented no traverse of any ground of objection or rejection nor amended any claim. Accordingly, THIS ACTION IS MADE FINAL even though it is a first action in this case. See MPEP 706.07(b). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A SHORTENED STATUTORY PERIOD FOR RESPONSE TO THIS FINAL ACTION IS SET TO EXPIRE THREE MONTHS FROM THE DATE OF THIS ACTION. IN THE EVENT A FIRST RESPONSE IS FILED WITHIN TWO MONTHS OF THE MAILING DATE OF THIS FINAL ACTION AND THE ADVISORY ACTION IS NOT MAILED UNTIL AFTER THE END OF THE THREE-MONTH SHORTENED STATUTORY PERIOD, THEN THE SHORTENED STATUTORY PERIOD WILL EXPIRE ON THE DATE THE ADVISORY ACTION IS MAILED, AND ANY EXTENSION FEE PURSUANT TO 37 CFR 1.136(a) WILL BE CALCULATED FROM THE

Serial Number 08/252,384 Art Unit 1814

MAILING DATE OF THE ADVISORY ACTION. IN NO EVENT WILL THE STATUTORY PERIOD FOR RESPONSE EXPIRE LATER THAN SIX MONTHS FROM THE DATE OF THIS FINAL ACTION.

An inquiry concerning this communication should be directed to Christopher Low at telephone number (703) 308-0196.

CSFL 19 August 1994

> CHRISTOPHER S. F. LOW PRIMARY EXAMINER GROUP 1800

Amirhpher S.S. Sow